### **Comparisons of Job Characteristics**

Focus Occupation: Mechanical Engineering Technicians (17-3027)

Associated Occupation: First-Line Supervisors of Mechanics, Installers, and Repairers

(49-1011)

Compare Knowledge
Compare Skills
Compare Abilities
Compare Detailed Work Activities
Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

#### Knowledge

Similarity of Focus Occupation to Associated Occupation: 70

Focus Occupation: Mechanical Engineering Technicians (17-3027)

Associated Occupation: First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation		
Mechanical	6.8	19.8	18.0	<	Expanded education and/or training may be required	
Administration and Management	8.4	16.2	8.8	<<	Extensive education and/or training may be required	
Education and Training	9.2	14.0	7.8	<<	Extensive education and/or training may be required	
Personnel and Human Resources	5.6	13.5	4.0	<<	Extensive education and/or training may be required	
Production and Processing	6.0	13.5	12.6	0	Current knowledge level may be sufficient	
Clerical	7.3	12.3	6.8	<<	Extensive education and/or training may be required	
Engineering and Technology	5.7	12.2	16.1	>>	Current knowledge level is likely more than sufficient	
Economics and Accounting	4.4	10.2	3.2	<<	Extensive education and/or training may be required	
Building and Construction	4.0	9.3	6.9	<<	Extensive education and/or training may be required	
Telecommunications	3.9	7.3	5.1	<<	Extensive education and/or training may be required	

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

**Skills** 

Similarity of Focus Occupation to Associated Occupation: 5

Focus Occupation: Mechanical Engineering Technicians (17-3027)

Associated Occupation: First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation		
Management of Personnel Resources	6.9	13.6	7.6	<<	Extensive development of skills in this area may be required	
Monitoring	9.9	13.5	10.0	<<	Extensive development of skills in this area may be required	
Time Management	8.9	13.0	9.0	<<	Extensive development of skills in this area may be required	
Coordination	9.1	12.5	9.2	<<	Extensive development of skills in this area may be required	
Quality Control Analysis	5.9	11.6	10.2	<	A higher skill level may be required	
Negotiation	6.8	11.0	7.5	<<	Extensive development of skills in this area may be required	
Troubleshooting	4.5	10.4	7.3	<<	Extensive development of skills in this area may be required	
Equipment Maintenance	3.5	10.1	6.8	<<	Extensive development of skills in this area may be required	
Repairing	3.4	10.0	6.6	<<	Extensive development of skills in this area may be required	
Management of Financial Resources	3.3	9.8	2.5	<<	Extensive development of skills in this area may be required	
Management of Material Resources	3.7	9.7	2.6	<<	Extensive development of skills in this area may be required	
Equipment Selection	3.3	7.5	6.2	<	A higher skill level may be required	

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of  $O^*NET$  (Occupation Information Network) data.

#### **Abilities**

Similarity of Focus Occupation to Associated Occupation: 94

Focus Occupation: Mechanical Engineering Technicians (17-3027)

Associated Occupation: First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Flexibility of Closure	7.8	10.3	9.2	<	Some improvement in abilities may be required
Auditory Attention	5.9	10.0	6.9	<<	Extensive improvement in abilities may be required
Hearing Sensitivity	5.6	9.7	7.4	<<	Extensive improvement in abilities may be required
Speed of Closure	5.9	9.1	6.0	<<	Extensive improvement in abilities may be required
Memorization	5.6	8.4	6.6	<	Some improvement in abilities may be required
Sound Localization	2.2	6.0	3.4	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of  $O^*NET$  (Occupation Information Network) data.

## Activities that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 65

Focus Occupation: Mechanical Engineering Technicians (17-3027)
Associated Occupation: First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011)

Work Activities	Exclusivity of Activity
Confer with engineering, technical or manufacturing personnel	25
Diagnose mechanical problems in machinery or equipment	65
Read blueprints	10
Read schematics	34
Read technical drawings	7
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

# **Tools and Technologies that Both Occupations Have in Common**

Similarity of Focus
Occupation to Associated
Occupation: 83

Focus Occupation: Mechanical Engineering Technicians (17-3027)
Associated Occupation: First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011)

Tools and Technologies	Exclusivity
Business function specific software	1
Computer printers	2
Computers	1
Content authoring and editing software	1
Industry specific software	1
Information exchange software	1
Integrated circuits	18
Network applications software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.